

chain nodes :

19 28 29 30 31 32 33 34 35 36 37 38 39 44

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27

chain bonds :

3-28 9-29 15-19 16-44 20-38 22-37 24-39 26-36 28-30 28-31 28-32 29-33 29-34 29-35

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 6-20 6-23 7-8 7-12 8-9 9-10 10-11 11-12 12-24 12-27 13-14 13-18 14-15 15-16 16-17 17-18 20-21 21-22 22-23 24-25 25-26 26-27

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 6-20 6-23 7-8 7-12 8-9 9-10 10-11 11-12 12-24 12-27 15-19 16-44 20-21 20-38 21-22 22-23 22-37 24-25 24-39 25-26 26-27 26-36

exact bonds :

3-28 9-29 28-30 28-31 28-32 29-33 29-34 29-35

normalized bonds :

13-14 13-18 14-15 15-16 16-17 17-18

G1:[*1],[*2]

G2:X,Cb,CN,NO2,C,O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:Atom 21:Atom
 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS 30:CLASS
 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS
 44:CLASS

=> d his

(FILE 'HOME' ENTERED AT 11:31:14 ON 27 SEP 2003)

FILE 'REGISTRY' ENTERED AT 11:31:20 ON 27 SEP 2003

L1 STRUCTURE UPLOADED
L2 1 S L1
L3 23 S L1 FULL

=> d que l3 stat

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L3 23 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 609 ITERATIONS
SEARCH TIME: 00.00.01

23 ANSWERS

=> fil capl

FILE 'CAPLUS' ENTERED AT 11:32:14 ON 27 SEP 2003

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FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14

FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 1 L3

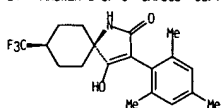
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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:247313 CAPLUS
 DOCUMENT NUMBER: 134:280721
 TITLE: Preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides
 INVENTOR(S): Fischer, Reiner; Graff, Alan; Bretschneider, Thomas; Erdelen, Christoph; Drewes, Mark Wilhela; Feucht, Dieter
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

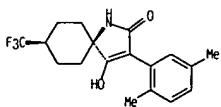
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WO 2001023354	A3	20020228		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, SN, TD, TG				
OE 19946625	A1	20010405	DE 1999-19946625	19990929
BR 2000014352	A	20020611	BR 2000-14352	20000919
EP 1220841	A2	20020710	EP 2000-967741	20000919
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JP 2003510308	T2	20030318	JP 2001-526508	20000919
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OTHER SOURCE(S): MARPAT 134:280721				
GRAPHIC IMAGE:				

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



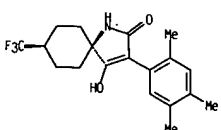
RN 332347-97-4 CAPLUS
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Relative stereochemistry.



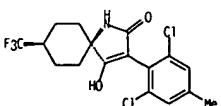
RN 332348-05-7 CAPLUS
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Relative stereochemistry.

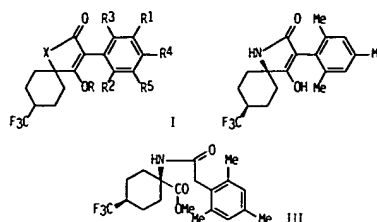


RN 332348-13-7 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2,6-dichloro-4-methylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



ABSTRACT:

Spirocyclic ketoenols, such as I [X = O, NH; R = H, acyl, alkyloxy, carbonyl, etc.; R1 = H, halogen, alkyl, alkoxy; R2 = H, CN, NO2, Ph, PhO, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, NO2, Ph, PhS, PhO, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R4 = H, CN, NO2, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy; R5 = H, CN, NO2, OH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, heteroaryloxy, phenylalkoxy, phenylalkylthio], were prepd. for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd. in 74% yield by intramol. cyclocondensation of ester III, which was prepd. starting from 4-(trifluoromethyl)cyclohexanone and mesityleneacetyl chloride. The prepd. spirocyclic ketoenols were tested for insecticidal activity against species, such as Myzus persicae, Aphis gossypii, and Tetranychus urticae.

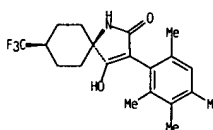
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 332348-13-7P 332348-19-3P 332348-24-0P
 332348-66-0P 332348-69-3P 332348-73-9P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)
 RN 332347-92-9 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-(trifluoromethyl)-3-(2,4,6-trimethylphenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

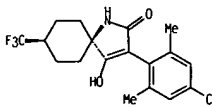
RN 332348-19-3 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

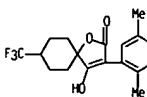


RN 332348-24-0 CAPLUS
 CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(4-chloro-2,6-dimethylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

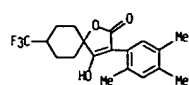


RN 332348-66-0 CAPLUS
 CN 1-Oxaspiro[4.5]dec-3-en-2-one, 3-(2,5-dimethylphenyl)-4-hydroxy-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)

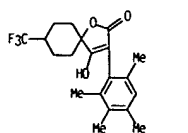


RN 332348-69-3 CAPLUS
 CN 1-Oxaspiro[4.5]dec-3-en-2-one, 4-hydroxy-8-(trifluoromethyl)-3-(2,4,5-trimethylphenyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



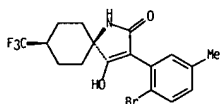
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CN 1-Oxaspiro[4.5]dec-3-en-2-one, 4-hydroxy-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)- (9CI) (CA INDEX NAME)



IT 332348-28-4P 332348-31-9P 332348-35-3P
332348-39-7P 332348-43-3P 332348-47-7P
332348-50-2P 332348-54-6P 332348-57-9P
332348-60-4P 332348-63-7P 332348-75-1P
332348-77-3P 332348-80-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)

RN 332348-28-4 CAPLUS
CN 1-Azaspiro[4.5]dec-3-en-2-one, 3-(2-bromo-5-methylphenyl)-4-hydroxy-8-(trifluoromethyl)-, cis- (9CI) (CA INDEX NAME)

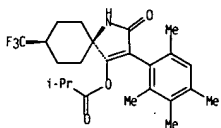
Relative stereochemistry.



L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

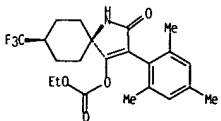
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CN Propanoic acid, 2-methyl-, cis-2-oxo-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



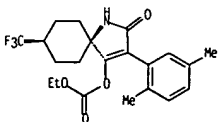
RN 332348-47-7 CAPLUS
CN Carbonic acid, ethyl cis-2-oxo-8-(trifluoromethyl)-3-(2,4,6-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 332348-50-2 CAPLUS
CN Carbonic acid, cis-3-(2,5-dimethylphenyl)-2-oxo-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

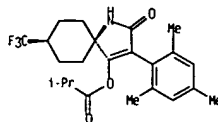


RN 332348-54-6 CAPLUS
CN Carbonic acid, ethyl cis-2-oxo-8-(trifluoromethyl)-3-(2,4,5-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

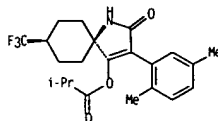
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CN Propanoic acid, 2-methyl-, cis-2-oxo-8-(trifluoromethyl)-3-(2,4,6-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



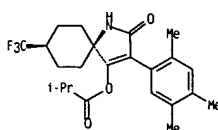
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CN Propanoic acid, 2-methyl-, cis-3-(2,5-dimethylphenyl)-2-oxo-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



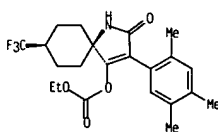
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CN Propanoic acid, 2-methyl-, cis-2-oxo-8-(trifluoromethyl)-3-(2,4,5-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



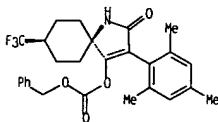
L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Relative stereochemistry.



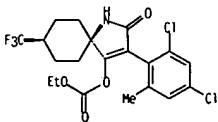
RN 332348-57-9 CAPLUS
CN Carbonic acid, cis-2-oxo-8-(trifluoromethyl)-3-(2,4,6-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 332348-60-4 CAPLUS
CN Carbonic acid, cis-3-(2,4-dichloro-6-methylphenyl)-2-oxo-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

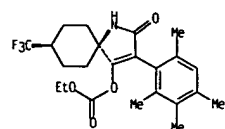
Relative stereochemistry.



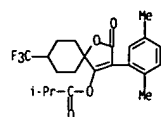
RN 332348-63-7 CAPLUS
CN Carbonic acid, ethyl cis-2-oxo-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

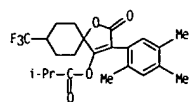
L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 332348-75-1 CAPLUS
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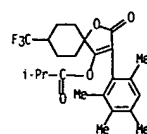


RN 332348-77-3 CAPLUS
 CN Propanoic acid, 2-methyl-, 2-oxo-8-(trifluoromethyl)-3-(2,4,5-trimethylphenyl)-1-oxaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)



RN 332348-80-8 CAPLUS
 CN Propanoic acid, 2-methyl-, 2-oxo-3-(2,3,4,6-tetramethylphenyl)-8-(trifluoromethyl)-1-oxaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



=> fil reg

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STRUCTURE FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

DICTIONARY FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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Uploading 088979b.str

L5 STRUCTURE UPLOADED

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SAMPLE SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 5 TO 234

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

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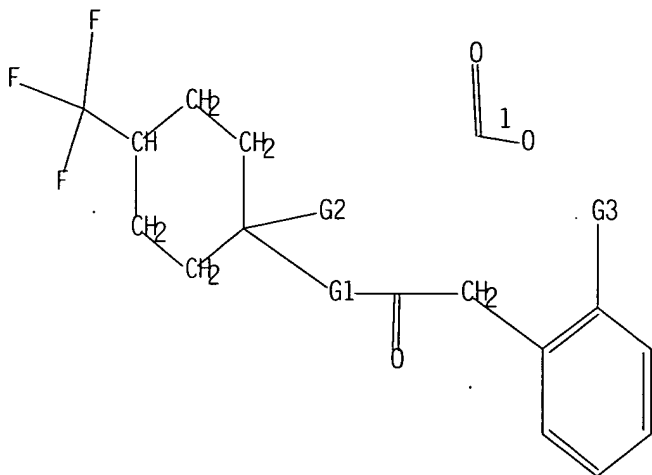
100.0% PROCESSED 108 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

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=> d que 17 stat
L5 STR



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G2 CN,[@]
G3 X,Cb,CN,N02,C,O,S

Structure attributes must be viewed using STN Express query preparation.

L7 10 SEA FILE=REGISTRY SSS FUL L5

100.0% PROCESSED 108 ITERATIONS
SEARCH TIME: 00.00.01

10 ANSWERS

=> fil capl

FILE 'CAPLUS' ENTERED AT 11:33:31 ON 27 SEP 2003

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FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14

FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L8 1 L7

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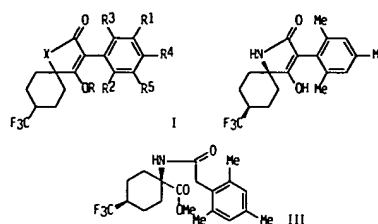
L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:247313 CAPLUS
 DOCUMENT NUMBER: 134:280721
 TITLE: Preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides
 INVENTOR(S): Fischer, Reiner; Graff, Alan; Bretschneider, Thomas; Erdelen, Christoph; Drewes, Mark Wilhelmo; Feucht, Dieter
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001023354	A2	20010405	WO 2000-EP9270	20000919
WO 2001023354	A3	20020228		

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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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 BR 2000014352 A 20020611 BR 2000-14352 20000919
 EP 1220841 A2 20020710 EP 2000-967741 20000919
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003510308 T2 20030318 JP 2001-526508 20000919
 PRIORITY APPLN. INFO.: DE 1999-19946625 A 19990929
 WO 2000-EP9270 W 20000919
 OTHER SOURCE(S): MARPAT 134:280721
 GRAPHIC IMAGE:

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



ABSTRACT:

Spirocyclic ketoenols, such as I [X = O, NH; R = H, acyl, alkyloxy, carbonyl, etc.; R1 = H, halogen, alkyl, alkoxy; R2 = H, CN, NO2, Ph, PhO, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, NO2, Ph, PhS, PhO, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R4 = H, CN, NO2, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy; R5 = H, CN, NO2, OH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, heteroaryloxy, phenylalkoxy, phenylalkylthio], were prepd. for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd. in 74% yield by intramol. cyclocondensation of ester III, which was prepd. starting from 4-(trifluoromethyl)cyclohexanone and mesityleneacetyl chloride. The prepd. spirocyclic ketoenols were tested for insecticidal activity against species, such as Myzus persicae, Aphis gossypii, and Tetranychus urticae.

IT 332348-83-1P 332348-85-3P 332348-88-6P
 332348-91-1P 332348-93-3P 332348-96-6P
 332348-99-9P 332349-07-2P 332349-09-4P
 332349-11-8P

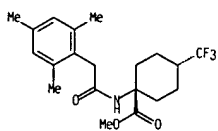
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)

RN 332348-83-1 CAPLUS

CN Cyclohexanecarboxylic acid, 4-(trifluoromethyl)-1-[[[(2,4,6-trimethylphenyl)acetyl]amino]-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

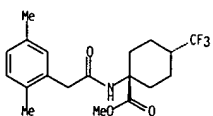
L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 332348-85-3 CAPLUS

CN Cyclohexanecarboxylic acid, 1-[[[(2,5-dimethylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

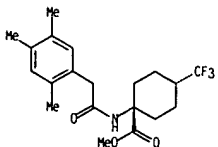
Relative stereochemistry.



RN 332348-88-6 CAPLUS

CN Cyclohexanecarboxylic acid, 4-(trifluoromethyl)-1-[[[(2,4,5-trimethylphenyl)acetyl]amino]-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

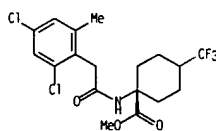


RN 332348-91-1 CAPLUS

CN Cyclohexanecarboxylic acid, 1-[[[(2,4-dichloro-6-methylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

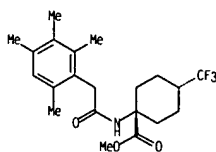
L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 332348-93-3 CAPLUS

CN Cyclohexanecarboxylic acid, 1-[[[(2,3,4,6-tetramethylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

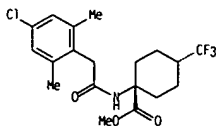
Relative stereochemistry.



RN 332348-96-6 CAPLUS

CN Cyclohexanecarboxylic acid, 1-[[[(4-chloro-2,6-dimethylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



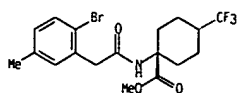
RN 332348-99-9 CAPLUS

CN Cyclohexanecarboxylic acid, 1-[[[(2-bromo-5-methylphenyl)acetyl]amino]-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

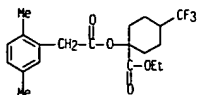
Relative stereochemistry.

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

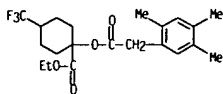
L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



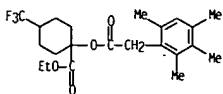
RN 332349-07-2 CAPLUS
 CN Benzeneacetic acid, 2,5-dicethyl-, 1-(ethoxycarbonyl)-4-(trifluoromethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



RN 332349-09-4 CAPLUS
 CN Benzeneacetic acid, 2,4,5-trimethyl-, 1-(ethoxycarbonyl)-4-(trifluoromethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



RN 332349-11-8 CAPLUS
 CN Benzeneacetic acid, 2,3,4,6-tetramethyl-, 1-(ethoxycarbonyl)-4-(trifluoromethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



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FILE 'REGISTRY' ENTERED AT 11:33:52 ON 27 SEP 2003

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STRUCTURE FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

DICTIONARY FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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Uploading 088979c.str

L9 STRUCTURE UPLOADED

=> s 19

SAMPLE SEARCH INITIATED 11:34:10 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 3 TO 163

PROJECTED ANSWERS: 0 TO 0

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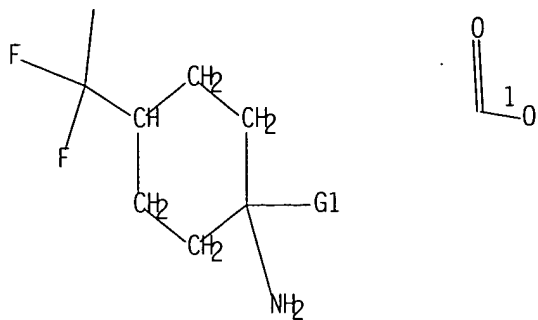
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Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED 50 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

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FILE 'CAPLUS' ENTERED AT 11:34:27 ON 27 SEP 2003

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FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14

FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L12 1 L11

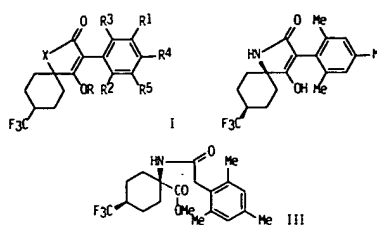
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L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:247313 CAPLUS
 DOCUMENT NUMBER: 134:280721
 TITLE: Preparation of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides
 INVENTOR(S): Fischer, Reiner; Graff, Alan; Bretschneider, Thomas; Erdelen, Christoph; Drewes, Mark Wilhelm; Feucht, Dieter
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WD 2001023354	A2	20010405	WD 2000-EP9270	20000919
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L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



ABSTRACT:

Spirocyclic ketoenols, such as I [X = O, NH; R = H, acyl, alkyloxycarbonyl, etc.; R1 = H, halogen, alkyl, alkoxy; R2 = H, CN, NO2, Ph, PhO, PhS, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R3 = H, CN, NO2, Ph, PhS, PhO, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, haloalkoxy, phenylalkoxy, phenylalkylthio; R4 = H, CN, NO2, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy; R5 = H, CN, NO2, OH, PhS, PhO, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, heteroaryloxy, phenylalkoxy, phenylalkylthio], were prepd. for use as pesticides and herbicides. Thus, spirocyclic ketoenol II was prepd. in 74% yield by intramol. cyclocondensation of ester III, which was prepd. starting from 4-(trifluoromethyl)cyclohexanone and mesityleneacetyl chloride. The prepd. spirocyclic ketoenols were tested for insecticidal activity against species, such as Myzus persicae, Aphis gossypii, and Tetranychus urticae.

IT 332349-04-9P

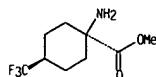
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of trifluoromethyl spirocyclic ketoenols for use as pesticides and herbicides)

RN 332349-04-9 CAPLUS

CN Cyclohexanecarboxylic acid, 1-amino-4-(trifluoromethyl)-, methyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



10/088,979

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=> log y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

4.95

459.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

-0.65

-1.95

STN INTERNATIONAL LOGOFF AT 11:34:51 ON 27 SEP 2003